Dual inverter Rev. 12 — 26 January 2022

1. General description

The 74LVC2G04 is a dual inverter. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power-down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- High noise immunity
- ±24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power dissipation
- Direct interface with TTL levels
- I_{OFF} circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 250 mA
- Complies with JEDEC standard:
 - JESD8-7 (1.65 V to 1.95 V)
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8C (2.7 V to 3.6 V)
 - JESD36 (4.6 V to 5.5 V)
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C.

3. Ordering information

| Type number | Package | Package | | | | | | |
|-------------------------------|----------------------|-----------------|--|-----------|--|--|--|--|
| | Temperature range | Name | Description | Version | | | | |
| 74LVC2G04GW -40 °C to +125 °C | | TSSOP6 | plastic thin shrink small outline package; 6 leads; body width 1.25 mm | SOT363-2 | | | | |
| 74LVC2G04GV | -40 °C to +125 °C | SC-74; TSOP6 | plastic surface-mounted package; 6 leads | SOT457 | | | | |
| 74LVC2G04GM | -40 °C to +125 °C | XSON6 | plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm | SOT886 | | | | |
| 74LVC2G04GN | -40 °C to +125 °C | XSON6 | extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm | SOT1115 | | | | |
| 74LVC2G04GS | -40 °C to +125 °C | XSON6 | extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm | SOT1202 | | | | |
| 74LVC2G04GX | -40 °C to +125 °C | X2SON6 | plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 × 0.8 × 0.32 mm | SOT1255-2 | | | | |

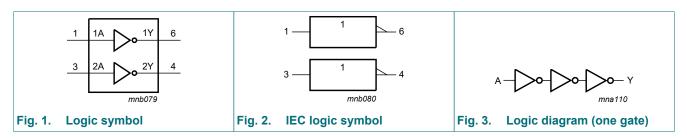
4. Marking

Table 2. Marking

| Type number | Marking code [1] |
|-------------|------------------|
| 74LVC2G04GW | V4 |
| 74LVC2G04GV | V04 |
| 74LVC2G04GM | V4 |
| 74LVC2G04GN | V4 |
| 74LVC2G04GS | V4 |
| 74LVC2G04GX | V4 |
| | |

[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

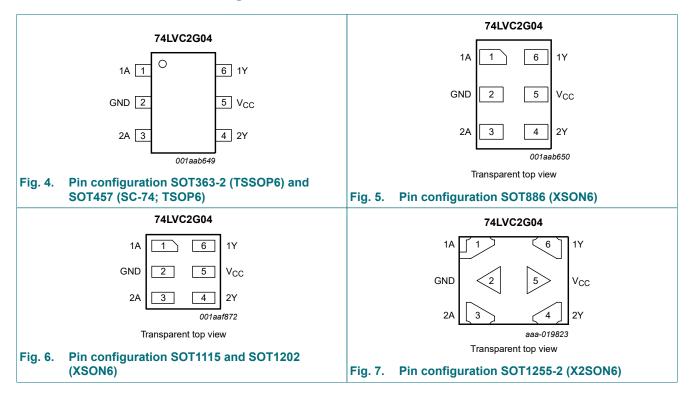
5. Functional diagram





6. Pinning information





6.2. Pin description

| Symbol | Pin | Description |
|-----------------|-----|----------------|
| 1A | 1 | data input |
| GND | 2 | ground (0 V) |
| 2A | 3 | data input |
| 2Y | 4 | data output |
| V _{CC} | 5 | supply voltage |
| 1Y | 6 | data output |

7. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level.

| Input | Output |
|-------|--------|
| nA | nY |
| L | Н |
| Н | L |

8. Limiting values

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Conditions | | Min | Мах | Unit |
|------------------|-------------------------|---|-----|------|-----------------------|------|
| V _{CC} | supply voltage | | | -0.5 | +6.5 | V |
| I _{IK} | input clamping current | V ₁ < 0 V | | -50 | - | mA |
| VI | input voltage | | [1] | -0.5 | +6.5 | V |
| I _{OK} | output clamping current | $V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V | | - | ±50 | mA |
| Vo | output voltage | Active mode | [1] | -0.5 | V _{CC} + 0.5 | V |
| | | Power-down mode; $V_{CC} = 0 V$ | [1] | -0.5 | +6.5 | V |
| lo | output current | $V_{O} = 0 V \text{ to } V_{CC}$ | | - | ±50 | mA |
| I _{CC} | supply current | | | - | 100 | mA |
| I _{GND} | ground current | | | -100 | - | mA |
| P _{tot} | total power dissipation | T _{amb} = -40 °C to +125 °C | [2] | - | 250 | mW |
| T _{stg} | storage temperature | | | -65 | +150 | °C |

The input and output voltage ratings may be exceeded if the input and output current ratings are observed. [1] [2]

For SOT363-2 (TSSOP6) package: Ptot derates linearly with 3.7 mW/K above 83 °C.

For SOT457 (SC-74; TSOP6) package: Ptot derates linearly with 4.1 mW/K above 89 °C.

For SOT886 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package: Ptot derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

For SOT1255-2 (X2SON6) package: Ptot derates linearly with 3.3 mW/K above 75 °C.

9. Recommended operating conditions

Table 6. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Тур | Мах | Unit |
|------------------|-------------------------------------|-----------------------------------|------|-----|-----------------|------|
| V _{CC} | supply voltage | | 1.65 | - | 5.5 | V |
| VI | input voltage | | 0 | - | 5.5 | V |
| Vo | output voltage | Active mode | 0 | - | V _{CC} | V |
| | | Power-down mode; V_{CC} = 0 V | 0 | - | 5.5 | V |
| T _{amb} | ambient temperature | | -40 | - | +125 | °C |
| Δt/ΔV | input transition rise and fall rate | V _{CC} = 1.65 V to 2.7 V | - | - | 20 | ns/V |
| | | V _{CC} = 2.7 V to 5.5 V | - | - | 10 | ns/V |

10. Static characteristics

Table 7. Static characteristics

At recommended operating conditions. Voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Conditions | -40 | °C to +85 | 5 °C | -40 °C to | +125 °C | Unit |
|------------------|------------------------------|---|-----------------------|----------------------|---------------------|-----------------------|---------------------|------|
| | | | Min | Тур <mark>[1]</mark> | Max | Min | Max | |
| V _{IH} | HIGH-level input | V _{CC} = 1.65 V to 1.95 V | 0.65V _{CC} | - | - | 0.65V _{CC} | - | V |
| | voltage | V _{CC} = 2.3 V to 2.7 V | 1.7 | - | - | 1.7 | - | V |
| | | V _{CC} = 2.7 V to 3.6 V | 2.0 | - | - | 2.0 | - | V |
| | | V _{CC} = 4.5 V to 5.5 V | 0.7V _{CC} | - | - | 0.7V _{CC} | - | V |
| V _{IL} | LOW-level input | V _{CC} = 1.65 V to 1.95 V | - | - | 0.35V _{CC} | - | 0.35V _{CC} | V |
| | voltage | V _{CC} = 2.3 V to 2.7 V | - | - | 0.7 | - | 0.7 | V |
| | | V _{CC} = 2.7 V to 3.6 V | - | - | 0.8 | - | 0.8 | V |
| | | V _{CC} = 4.5 V to 5.5 V | - | - | 0.3V _{CC} | - | 0.3V _{CC} | V |
| V _{OH} | HIGH-level | V _I = V _{IH} or V _{IL} | | | | | | |
| | output voltage | I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V | V _{CC} - 0.1 | - | - | V _{CC} - 0.1 | - | V |
| | | I _O = -4 mA; V _{CC} = 1.65 V | 1.2 | - | - | 0.95 | - | V |
| | | I _O = -8 mA; V _{CC} = 2.3 V | 1.9 | - | - | 1.7 | - | V |
| | | I _O = -12 mA; V _{CC} = 2.7 V | 2.2 | - | - | 1.9 | - | V |
| | | I _O = -24 mA; V _{CC} = 3.0 V | 2.3 | - | - | 2.0 | - | V |
| | | I _O = -32 mA; V _{CC} = 4.5 V | 3.8 | - | - | 3.4 | - | V |
| V _{OL} | LOW-level output | V _I = V _{IH} or V _{IL} | | | | | | _ |
| | voltage | I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V | - | - | 0.10 | - | 0.10 | V |
| | | I _O = 4 mA; V _{CC} = 1.65 V | - | - | 0.45 | - | 0.70 | V |
| | | I _O = 8 mA; V _{CC} = 2.3 V | - | - | 0.30 | - | 0.45 | V |
| | | I _O = 12 mA; V _{CC} = 2.7 V | - | - | 0.40 | - | 0.60 | V |
| | | I _O = 24 mA; V _{CC} = 3.0 V | - | - | 0.55 | - | 0.80 | V |
| | | I _O = 32 mA; V _{CC} = 4.5 V | - | - | 0.55 | - | 0.80 | V |
| I | input leakage current | V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V | - | ±0.1 | ±1 | - | ±1 | μA |
| I _{OFF} | power-off leakage current | $V_{CC} = 0 \text{ V}; \text{ V}_{1} \text{ or } \text{ V}_{0} = 5.5 \text{ V}$ | - | ±0.1 | ±2 | - | ±2 | μA |
| I _{CC} | supply current | V _I = 5.5 V or GND; I _O = 0 A; V _{CC} = 1.65 V to 5.5 V | - | 0.1 | 4 | - | 4 | μA |
| ΔI _{CC} | additional supply current | per pin; V_{CC} = 2.3 V to 5.5 V; V _I = V _{CC} - 0.6 V; I _O = 0 A | - | 5 | 500 | - | 500 | μA |
| CI | input capacitance | V_{CC} = 3.3 V; V_{I} = GND to V_{CC} | - | 2.5 | - | - | - | pF |

[1] All typical values are measured at V_{CC} = 3.3 V and T_{amb} = 25 °C.

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 9.

| Symbol | Parameter | Conditions | -40 | °C to +85 | 5 °C | -40 °C to | +125 °C | Unit |
|-----------------|-------------------------------|--|-----|-----------|------|-----------|---------|------|
| | | | Min | Typ [1] | Max | Min | Мах | |
| t _{pd} | propagation delay | nA to nY; see Fig. 8 [2] | | | | | | |
| | | V _{CC} = 1.65 V to 1.95 V | 1.0 | 3.5 | 8.0 | 1.0 | 9.5 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 1.0 | 2.2 | 4.4 | 1.0 | 5.4 | ns |
| | | V _{CC} = 2.7 V | 1.0 | 2.7 | 5.2 | 1.0 | 7.0 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.5 | 2.7 | 4.1 | 0.5 | 5.5 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | 1.0 | 1.9 | 3.2 | 1.0 | 3.8 | ns |
| C _{PD} | power dissipation capacitance | $V_{I} = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V}$ [3] | - | 13.5 | - | - | - | pF |

[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.

[2]

 t_{pd} is the same as t_{PLH} and t_{PHL} . C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$ where: [3]

 f_i = input frequency in MHz;

 $f_o = output$ frequency in MHz;

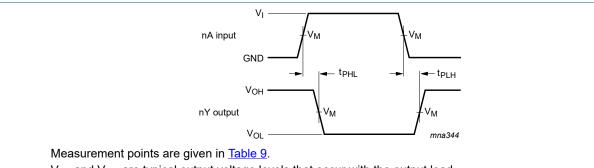
 C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC}^2 \times f_o) = \text{sum of outputs.}$

11.1. Waveforms and test circuit



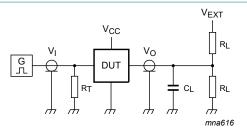
 V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 8. The input nA to output nY propagation delays

Table 9. Measurement points

| Supply voltage | Input | Output |
|------------------|--------------------|--------------------|
| V _{cc} | V _M | V _M |
| 1.65 V to 1.95 V | 0.5V _{CC} | 0.5V _{CC} |
| 2.3 V to 2.7 V | 0.5V _{CC} | 0.5V _{CC} |
| 2.7 V | 1.5 V | 1.5 V |
| 3.0 V to 3.6 V | 1.5 V | 1.5 V |
| 4.5 V to 5.5 V | 0.5V _{CC} | 0.5V _{CC} |

Dual inverter



Test data is given in <u>Table 10</u>.

Definitions for test circuit:

R_L = Load resistance.

 C_{L} = Load capacitance including jig and probe capacitance.

 R_T = Termination resistance should be equal to the output impedance Z_o of the pulse generator.

 V_{EXT} = External voltage for measuring switching times.

Fig. 9. Test circuit for measuring switching times

Table 10. Test data

| Supply voltage | Input | | Load | | V _{EXT} |
|------------------|-----------------|---------------------------------|-------|-------|-------------------------------------|
| V _{cc} | VI | t _r = t _f | CL | RL | t _{PLH} , t _{PHL} |
| 1.65 V to 1.95 V | V _{CC} | ≤ 2.0 ns | 30 pF | 1 kΩ | open |
| 2.3 V to 2.7 V | V _{CC} | ≤ 2.0 ns | 30 pF | 500 Ω | open |
| 2.7 V | 2.7 V | ≤ 2.5 ns | 50 pF | 500 Ω | open |
| 3.0 V to 3.6 V | 2.7 V | ≤ 2.5 ns | 50 pF | 500 Ω | open |
| 4.5 V to 5.5 V | V _{CC} | ≤ 2.5 ns | 50 pF | 500 Ω | open |



12. Package outline

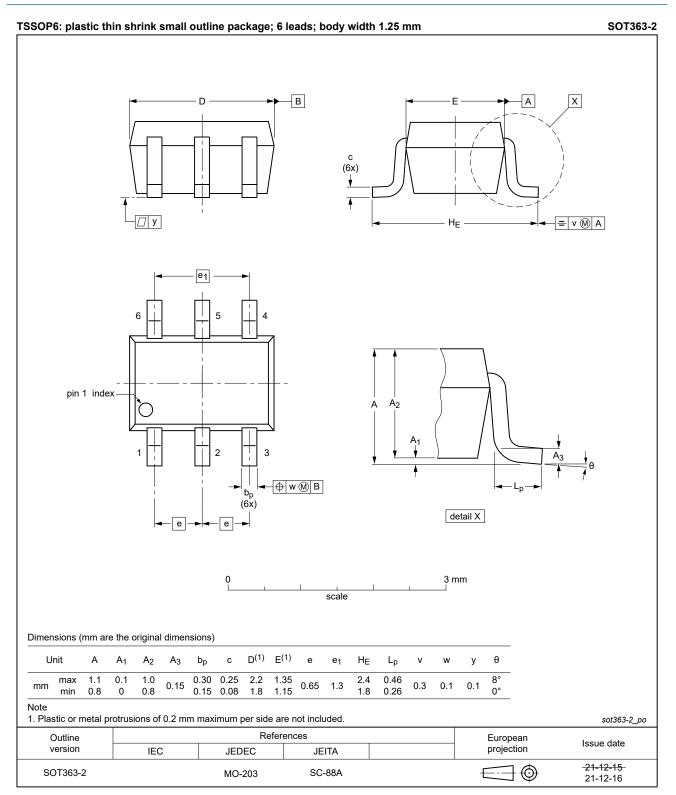


Fig. 10. Package outline SOT363-2 (TSSOP6)

74LVC2G04

Dual inverter

Plastic, surface-mounted package (SC-74; TSOP6); 6 leads

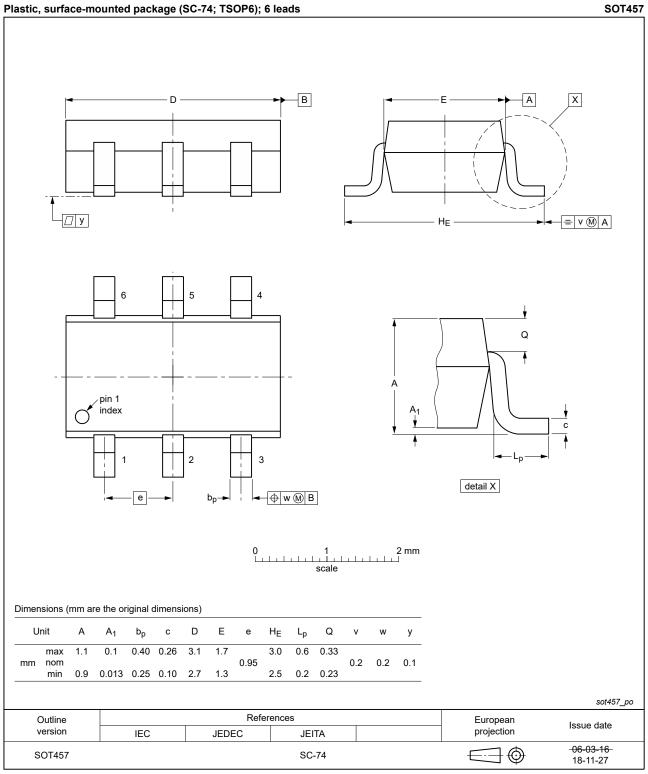


Fig. 11. Package outline SOT457 (SC-74; TSOP6)

Dual inverter

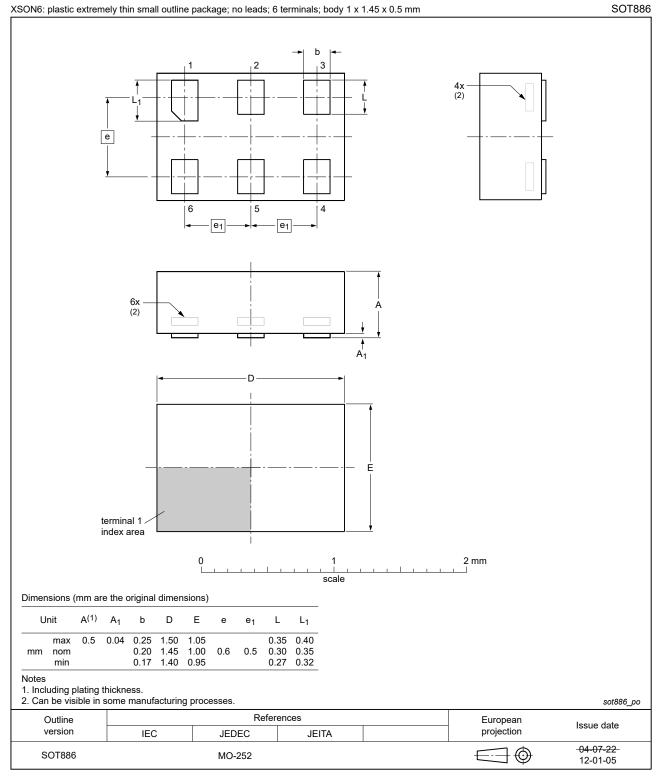
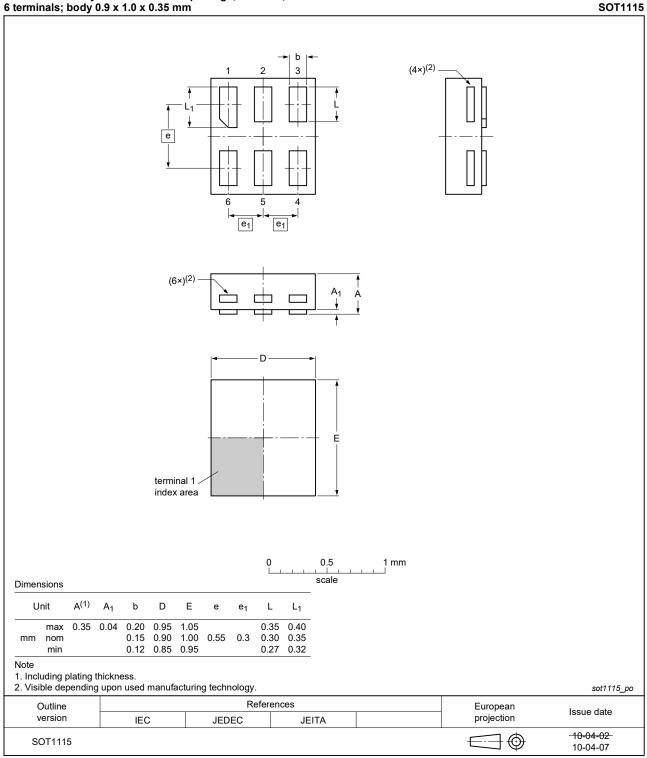


Fig. 12. Package outline SOT886 (XSON6)

Dual inverter

XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm





Dual inverter

XSON6: extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm

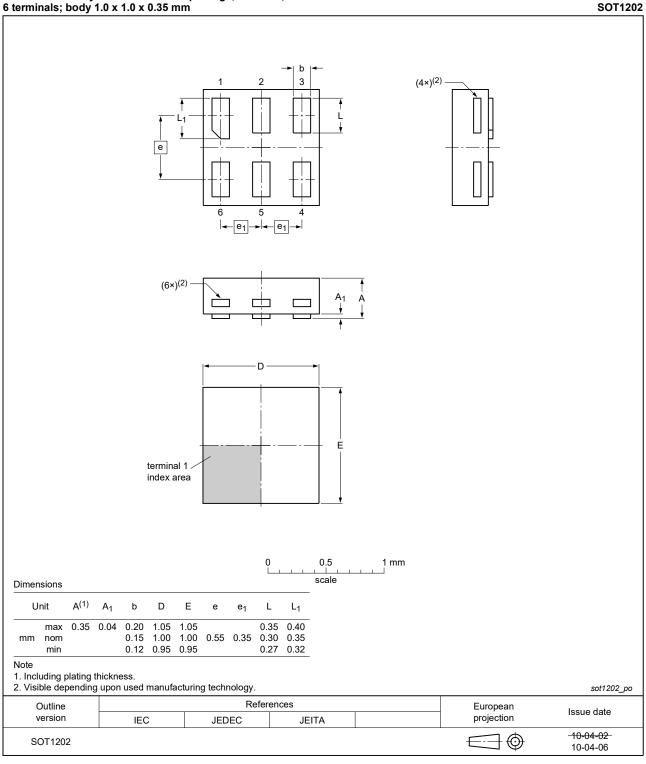
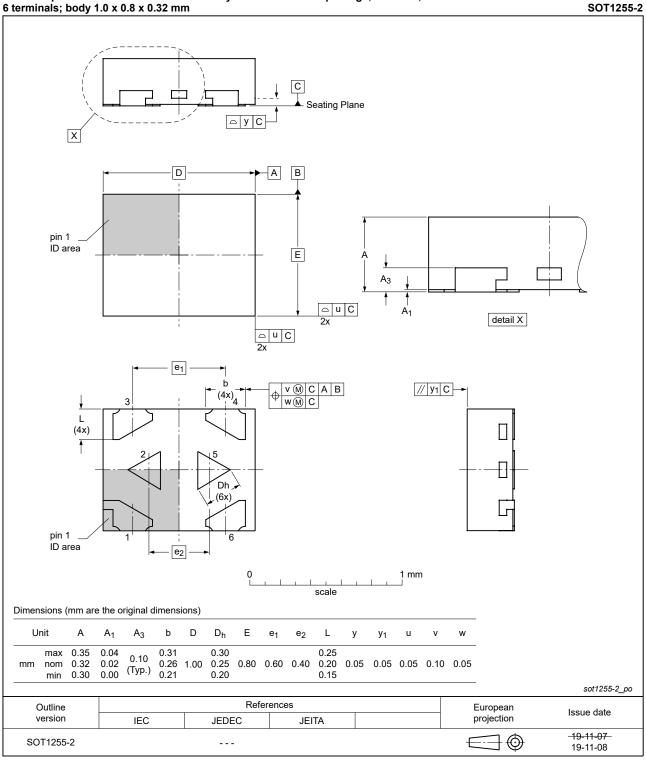


Fig. 14. Package outline SOT1202 (XSON6)

Dual inverter



X2SON6: plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 x 0.8 x 0.32 mm



13. Abbreviations

| Acronym | Description |
|---------|---|
| CMOS | Complementary Metal-Oxide Semiconductor |
| DUT | Device Under Test |
| ESD | ElectroStatic Discharge |
| НВМ | Human Body Model |
| MM | Machine Model |
| TTL | Transistor-Transistor Logic |

14. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes | | |
|----------------|---|--|--|---|--|--|
| 74LVC2G04 v.12 | 20220126 | Product data sheet | - | 74LVC2G04 v.11 | | |
| Modifications: | Package SOT | 363 (SC-88) changed to SC | OT363-2 (TSSOP6). | | | |
| 74LVC2G04 v.11 | 20210929 | Product data sheet | - | 74LVC2G04 v.10 | | |
| Modifications: | SOT1255 (X25 <u>Table 5</u>: Derati <u>Fig. 11</u>: Package | 74LVC2G04GF (SOT891) r SON6) package changed to ng values for P _{tot} total pow ge outline drawing SOT457 <u>Section 2</u> updated. | o SOT1255-2 (X2SOI ver dissipation update | , | | |
| 74LVC2G04 v.10 | 20170522 | Product data sheet | - | 74LVC2G04 v.9 | | |
| Modifications: | Nexperia. Legal texts have | this data sheet has been re ve been adapted to the new on updated. <u>Section 6.2</u> | | vith the identity guidelines of ere appropriate. | | |
| 74LVC2G04 v.9 | 20161212 | Product data sheet | - | 74LVC2G04 v.8 | | |
| Modifications: | • <u>Table 7</u> : The m | naximum limits for leakage | current and supply cu | urrent have changed. | | |
| 74LVC2G04 v.8 | 20150917 | Product data sheet | - | 74LVC2G04 v.7 | | |
| Modifications: | Added type nu | mber 74LVC2G04GX (SO | T1255/X2SON6). | 255/X2SON6). | | |
| 74LVC2G04 v.7 | 20140910 | Product data sheet | - | 74LVC2G04 v.6 | | |
| Modifications: | Package outlin | e drawing of SOT886 (Fig. | Fig. 12) modified. | | | |
| 74LVC2G04 v.6 | 20111206 | Product data sheet | - | 74LVC2G04 v.5 | | |
| 74LVC2G04 v.5 | 20100805 | Product data sheet | - | 74LVC2G04 v.4 | | |
| 74LVC2G04 v.4 | 20070725 | Product data sheet | - | 74LVC2G04 v.3 | | |
| 74LVC2G04 v.3 | 20070216 | Product data sheet | - | 74LVC2G04 v.2 | | |
| 74LVC2G04 v.2 | 20040915 | Product specification | - | 74LVC2G04 v.1 | | |
| 74LVC2G04 v.1 | 20030722 | Product specification | - | - | | |

Dual inverter

15. Legal information

Data sheet status

| Document status [1][2] | Product status [3] | Definition |
|-----------------------------------|-----------------------|---|
| Objective [short] data sheet | Development | This document contains data from the objective specification for product development. |
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| Product [short] data sheet | Production | This document contains the product specification. |

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74LVC2G04



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